



BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

Nana Wall System, Inc.
707 Redwood Highway
Mill Valley, Ca 94941

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Series "SL72" Inswing Aluminum Bifold Door

APPROVAL DOCUMENT: Drawing No. 1103, titled "SL72-Folding Aluminum Framed Opening Glass Wall System", sheets 1 through 6 of 6, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 5/22/02, signed and sealed by Warren Schaefer, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Theodore Berman, P.E.**



NOA No 02-0927.09
Expiration Date: January 09, 2008
Approval Date: January 09, 2003
Page 1

Nana Wall System, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA)

A. DRAWINGS

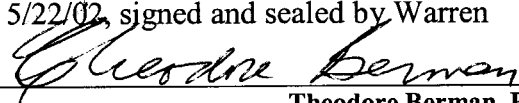
1. Manufacturer's die drawings and sections.
2. Drawing No. **1103**, titled "SL72-Folding Aluminum Framed Opening Glass Wall System", sheets 1 through 6 of 6, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 5/22/02, signed and sealed by Warren Schaefer, P.E.

B. TESTS

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 3603.2 (b) and TAS 202-94
along with marked-up drawings and installation diagram of a four panel aluminum bifold inswing door, prepared by Architectural Testing, Inc., Test Report No. ATI 03-31448.02, dated 5/1/02 signed and sealed by Allen N. Reeves, P.E.
2. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 3603.2 (b) and TAS 202-94
along with marked-up drawings and installation diagram of a four panel aluminum bifold inswing door, prepared by Architectural Testing, Inc., Test Report No. ATI 03-31448.03, dated 4/29/02 signed and sealed by Allen N. Reeves, P.E.
3. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 3603.2 (b) and TAS 202-94
along with marked-up drawings and installation diagram of a four panel aluminum bifold inswing door, prepared by Architectural Testing, Inc., Test Report No. ATI 03-31448.01, dated 6/6/02 signed and sealed by Allen N. Reeves, P.E.

C. CALCULATIONS

1. Anchor Calculations and structural analysis, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 5/22/02, signed and sealed by Warren Schaefer, P.E.



Theodore Berman, P.E.

Deputy Director, Product Control Division

NOA No 02-0927.09

Expiration Date: January 09, 2008

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(For File ONLY. Not part of NOA)

D. MATERIAL CERTIFICATIONS

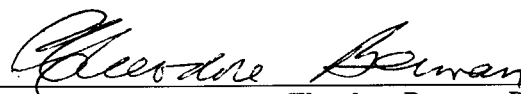
1. Notice of Acceptance No. **98-0728.05** issued to Solutia, Inc. for "Saflex IIIIG PVB Polyvinyl butryal interlayer" dated 8/27/98, expiring on 5/21/01.
2. Notice of Acceptance No. **00-082203** issued to Solutia, Inc. for "Saflex HP" dated 10/19/00, expiring on 4/14/03.
3. Notice of Acceptance No. **01-1204.01** issued to E.I. DuPont DeNemours for "Sentry Glass Plus" dated 1/17/02, expiring on 1/14/07.

E. STATEMENTS

1. Statement letter of conformance, dated 6/7/02, signed and sealed by Warren Schaefer, P.E.
2. Statement letter of no financial interest, dated 6/7/02, signed and sealed by Warren Schaefer, P.E.
3. Laboratory compliance letter for Test Report no. ATI 03-31448.02, issued by Architectural Testing, Inc., dated 8/15/02, signed and sealed by Allen N. Reeves, P.E.
4. Laboratory compliance letter for Test Report no. ATI 03-31448.03, issued by Architectural Testing, Inc., dated 8/16/02, signed and sealed by Allen N. Reeves, P.E.
5. Laboratory compliance letter for Test Report no. ATI 03-31448.01, issued by Architectural Testing, Inc., dated 8/14/02, signed and sealed by Allen N. Reeves, P.E.

F. OTHER

1. Letter from Pistorino & Alam Consulting Engineers, Inc.



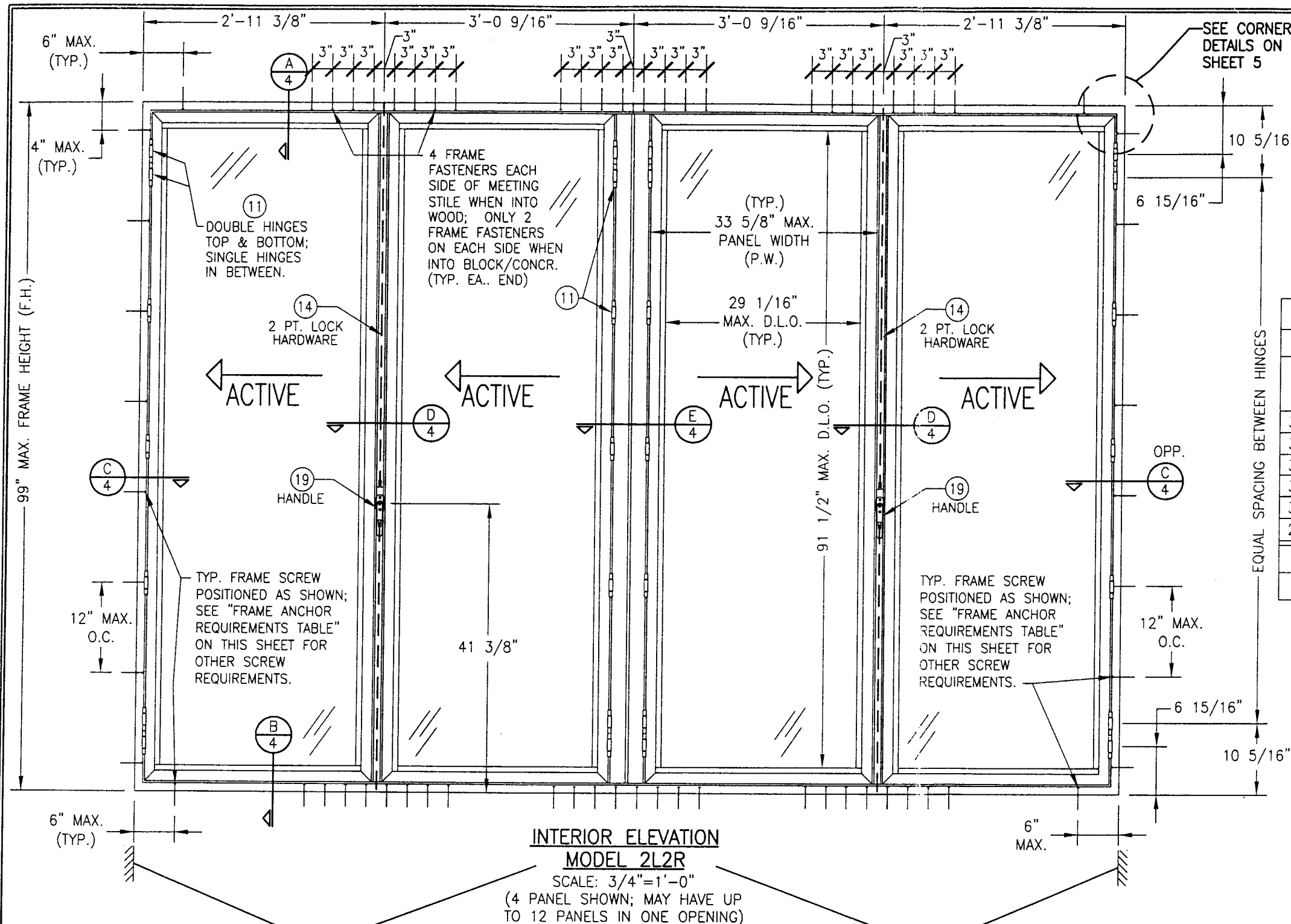
Theodore Berman, P.E.

Deputy Director, Product Control Division

NOA No 02-0927.09

Expiration Date: January 09, 2008

Approval Date: January 09, 2003



HINGE REQUIREMENTS	
FRAME HEIGHT (IN.)	# HINGES REQUIRED
LESS THAN 39"	4
39" UP TO 58"	5
59" UP TO 79"	6
80" TO 99"	7
(INCLUDES DOUBLE HINGES @ TOP & BOTTOM OF PANELS)	

ALLOWABLE DESIGN LOAD			
WITH GLASS TYPE 1, 3 & 5 (ANNEALED)			
PANEL WIDTH (IN.)	PANEL HEIGHT (IN.)	ALLOWABLE PRESSURE (PSF)	
		POSITIVE	NEGATIVE
33 5/8"	96 1/16"	55	72.8
33 5/8"	88"	55	74.5
33 5/8"	80"	55	77.5
33 5/8"	72"	55	80.6
33 5/8"	64" & LESS	55	90.0
27 3/8"	96 1/16"	55	90.0
WITH GLASS TYPE 2, 4 & 6 (HEAT STRENGTHENED)			
ALL SIZES = +55/-90 PSF			

GENERAL NOTES

1. THESE DOOR/WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED AND APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN LOADS" TABLE.
2. BUCKING, OPENINGS & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH DADE COUNTY PROTOCOLS PA 201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE DOOR SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE DOORS.
7. ALL ANCHORS SHALL BE INSTALLED AS SPECIFIED ON THESE DRAWINGS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.

* FRAME ANCHOR REQUIREMENTS TABLE			
OPENING TYPE (SUBSTRATE)	JAMB TO OPENING FASTENER TYPE	MINIMUM EMBEDMENT	MINIMUM EDGE DIST.
2X_ WOOD FRAME OR BUCK	NO. 14 SMS SCREW	1 3/8"	3/4"
CMU/CONCRETE	(1) 1/4" CONCRETE SCREWS	1 1/4"	2"

(1) CONCRETE SCREWS SHALL BE ITW RAMSET/RED HEAD TAPCONS, ELCO TAPCONS, HILTI KWIK-CON II OR POWERS RAWL TAPPER (HARDENED STEEL OR S.S.).

* ANCHOR NOTE: FRAME MAY BE EITHER DIRECT MOUNTED TO THE OPENING, MOUNTED ONTO A CONTINUOUS WOOD SPACER, OR ANCHORED TO A MIN. 2X4 NO. 3 SOUTHERN PINE WOOD BUCK. WHEN ANCHORED TO A 2X4 BUCK, NO. 14 SCREWS SHALL BE USED. WHEN DIRECT MOUNTED OR MOUNTED WITH SPACER, 1/4" CONCRETE SCREWS SHALL BE USED. SEE "ANCHOR REQUIREMENTS TABLE" FOR EMBED REQUIREMENTS. PROPER MATERIAL SHALL BE USED BETWEEN ALL DISIMILAR MATERIALS (BLOCK/CONCRETE & ALUMINUM).

Approved as complying with the
Florida Building Code

Date 01/09/03

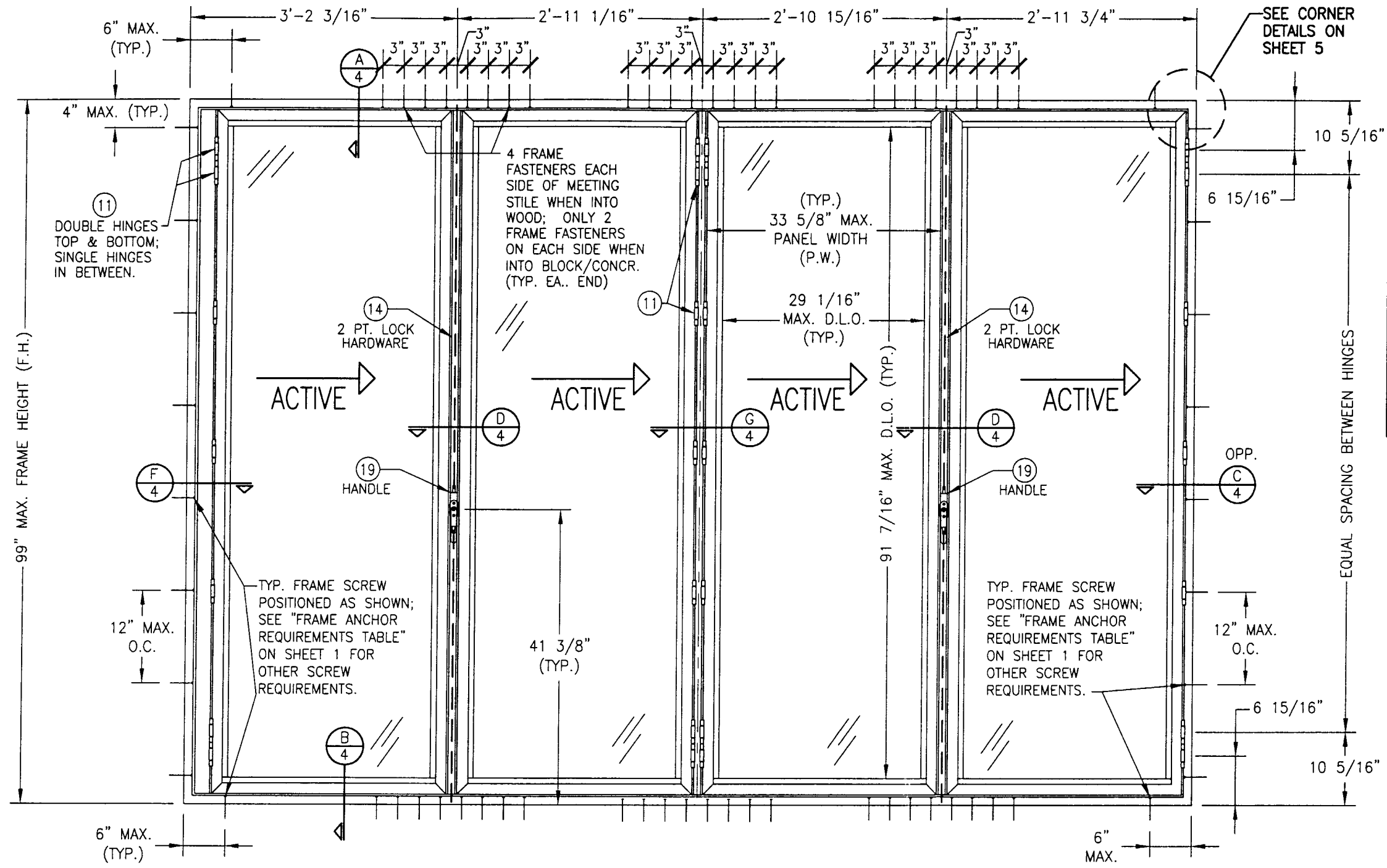
NOAH 02-09227-09

Miami Dade Product Control

Division

By *Warren W. Schaefer*

DRAWING BY: J.C.F.		CHECKED BY: W.W.S.	
PLOT: 1-16		DATE: 05/22/02	
DATE	BY	REVISION	DESCRIPTION
NO.			
DRAWING TITLE SL72 - FOLDING ALUMINUM FRAMED OPENING GLASS WALL SYSTEM			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903		MANUFACTURER NANA WALL SYSTEMS, INC. 707 REDWOOD HIGHWAY MILL VALLEY, CA 94941 425-383-3148	
CERTIFICATION NOV 26 2002		P.E. WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1103		REV.	
SHEET NO. 1		OF 6	



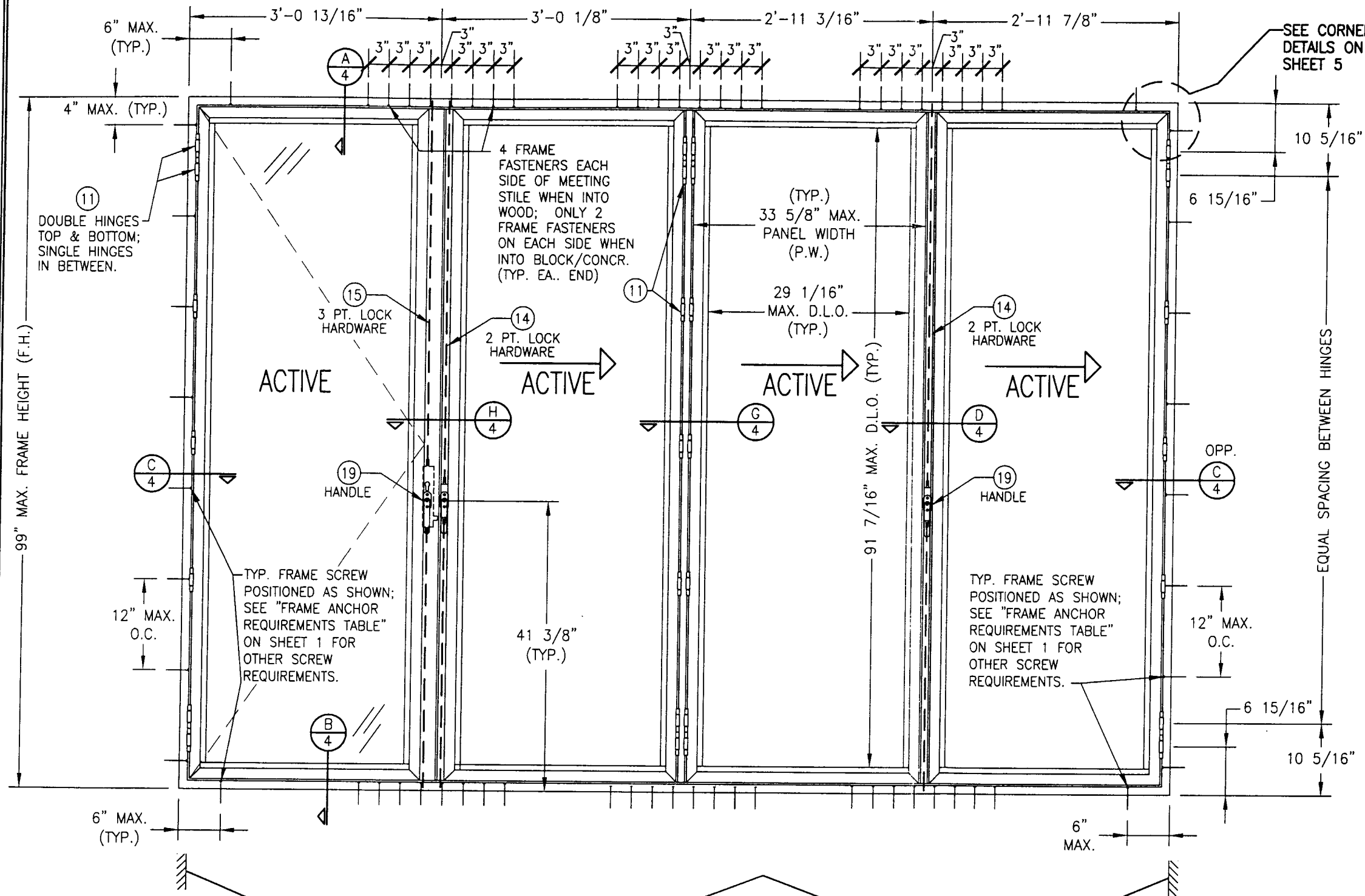
HINGE REQUIREMENTS	
FRAME HEIGHT (IN.)	# HINGES REQUIRED
LESS THAN 39"	4
39" UP TO 58"	5
59" UP TO 79"	6
80" TO 99"	7

(INCLUDES DOUBLE HINGES @ TOP & BOTTOM OF PANELS)

INTERIOR ELEVATION
 MODEL 4R
 SCALE: 3/4"=1'-0"
 (4 PANEL SHOWN; MAY HAVE UP TO 12 PANELS IN ONE OPENING)

Approved as complying with the
 Florida Building Code
 Date 01/09/03
 NOA# 02-0922.09
 Miami Dade Product Control
 Division
 By: *Warren Berman*

DRAWN BY: J.C.F.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 05/22/02	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: SL72 - FOLDING ALUMINUM FRAMED OPENING GLASS WALL SYSTEM		MANUFACTURER: NANA WALL SYSTEMS, INC.	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		707 REDWOOD HIGHWAY MILL VALLEY, CA 94941 425-383-3148	
600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
CERTIFICATION: NOV 26 2002			
DRAWING NO. 1103		REV.	
SHEET NO. 2		OF 6	

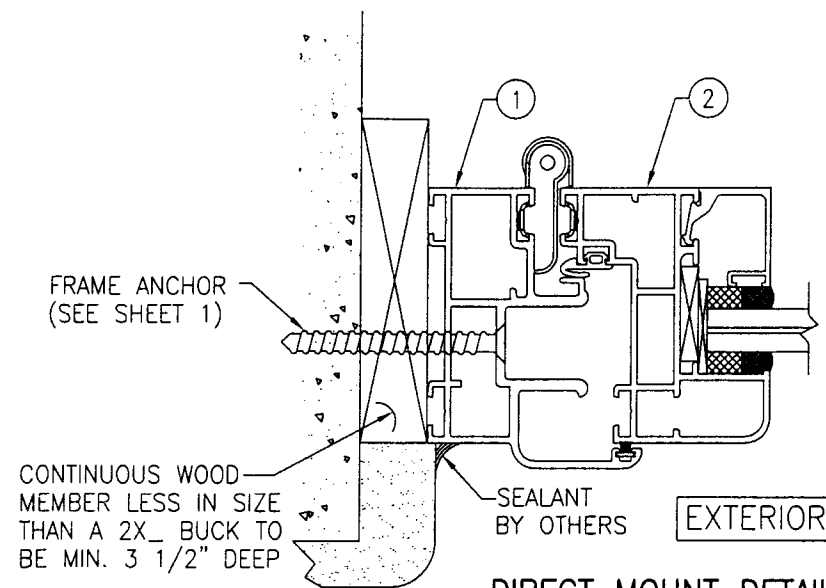


HINGE REQUIREMENTS	
FRAME HEIGHT (IN.)	# HINGES REQUIRED
UP TO 39"	4
40" UP TO 59"	5
60" UP TO 79"	6
80" TO 99"	7
(INCLUDES DOUBLE HINGES @ TOP & BOTTOM OF PANELS)	

INTERIOR ELEVATION
 MODEL 1L3R
 SCALE: 3/4"=1'-0"
 (4 PANEL SHOWN; MAY HAVE UP
 TO 12 PANELS IN ONE OPENING)

Approved as complying with the
 Florida Building Code
 Date: 01/09/03
 NOA# 02-0423.04
 Miami Dade Product Control
 Division
 By: *Edward Gorman*

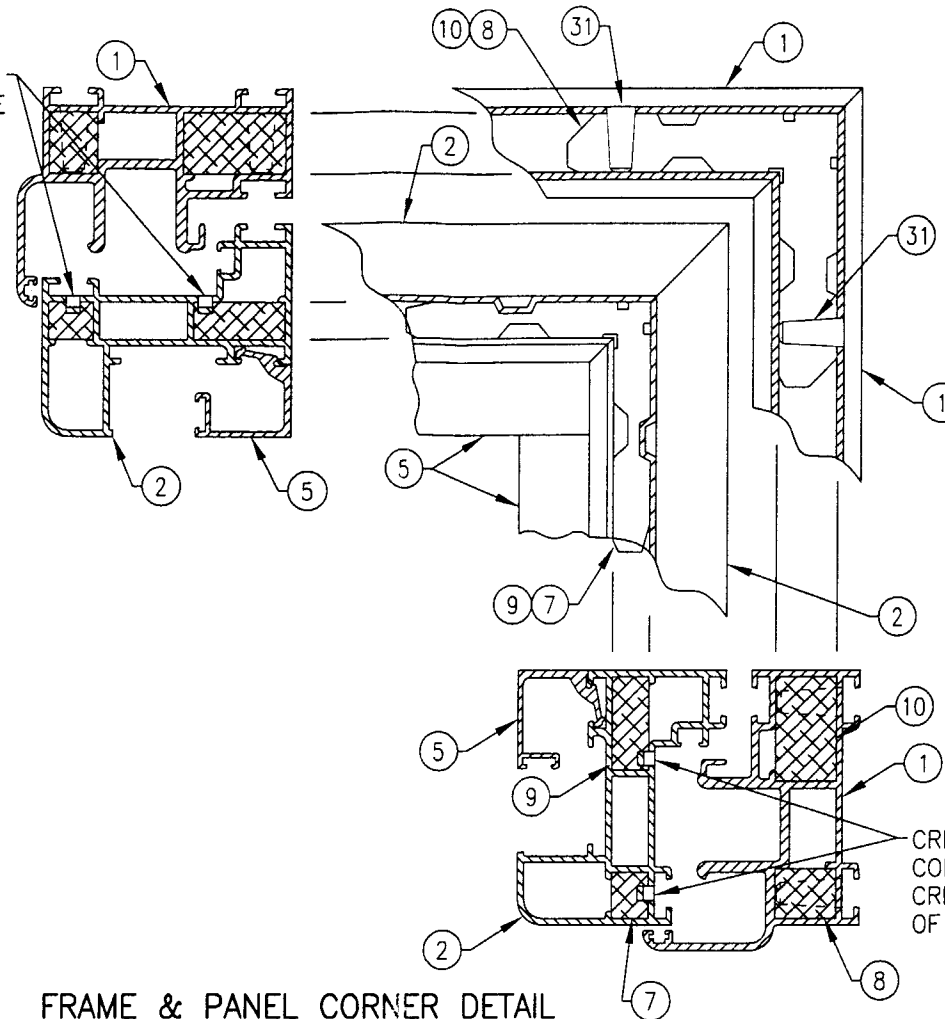
DRAWN BY: J.C.F.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 05/22/02	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE		MANUFACTURER	
SL72 - FOLDING ALUMINUM FRAMED OPENING GLASS WALL SYSTEM		NANA WALL SYSTEMS, INC.	
CONSULTANTS		707 REDWOOD HIGHWAY	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MILL VALLEY, CA 94941	
600 SANDTREE DRIVE, SUITE 203B		425-383-3148	
PALM BEACH GARDENS, FL 33403			
PHONE: 561-775-4902 FAX: 561-775-4903			
CERTIFICATION		WARREN W. SCHAEFER, P.E.	
NOV 26 2002		P.E. NO. 44135	
DRAWING NO. 1103		REV.	
SHEET NO. 3		OF 6	



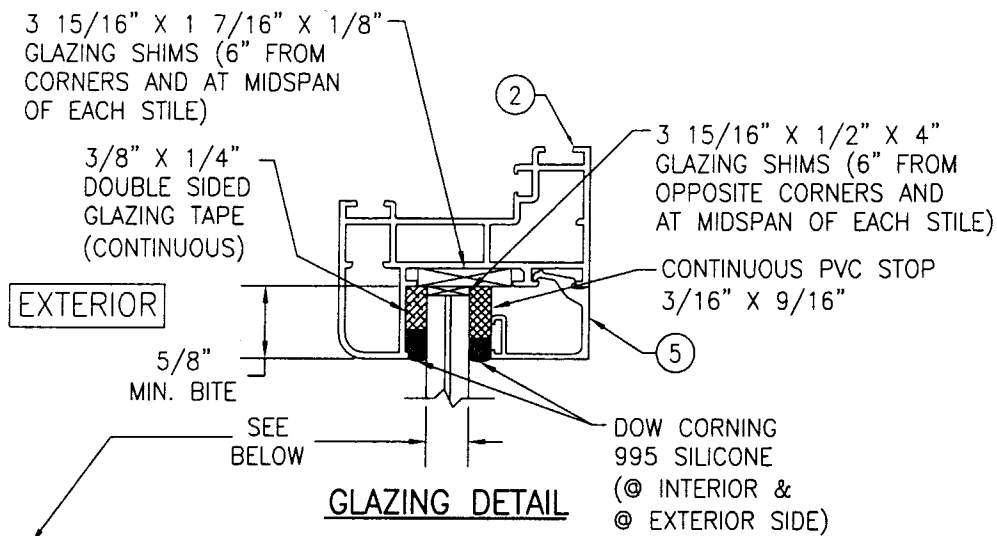
DIRECT MOUNT DETAIL

SIDE JAMB DETAIL SHOWN; OTHER JAMBS SIMILAR
SEE SECTIONS FOR DETAIL NOT SHOWN

CRIMPS SECURING
CORNER KEY; ONE
CRIMP EACH LEG
OF KEY.



FRAME & PANEL CORNER DETAIL



GLAZING DETAIL

DUPONT SENTRY GLASS PLUS LAMINATED GLASS

OPTION 1) 7/16" THICK OVERALL (3/16" AN/0.09" SGP/3/16" AN) OR
OPTION 2) 7/16" THICK OVERALL (3/16" HT.ST./0.09" SGP/3/16" HT.ST.)

SOLUTIA 0.09" PVB LAMINATED GLASS

OPTION 3) 7/16" THICK OVERALL (3/16" AN/0.09" PVB/3/16" AN) OR
OPTION 4) 7/16" THICK OVERALL (3/16" HT.ST./0.09" PVB/3/16" HT.ST.)

SOLUTIA HP LAMINATED GLASS

OPTION 5) 7/16" THICK OVERALL (3/16" AN/0.10" HP/3/16" AN) OR
OPTION 6) 7/16" THICK OVERALL (3/16" HT.ST./0.10" HP/3/16" HT.ST.)

Approved as complying with the
Florida Building Code
Date 01/09/03
NOA# 02-0922.09
Miami Dade Product Control
Division
By *Charles Berman*

DRAWN BY: J.C.F.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 05/22/02	
NO.	REVISION	DESCRIPTION	BY
DRAWING TITLE SL72 - FOLDING ALUMINUM FRAMED OPENING GLASS WALL SYSTEM			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903		MANUFACTURER NANA WALL SYSTEMS, INC 707 REDWOOD HIGHWAY MILL VALLEY, CA 94941 425-383-3148	
CERTIFICATION NOV 26 2002 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1103		REV.	
SHEET NO. 5		OF 6	

① FRAME PROFILE

② PANEL PROFILE

③ SLIDING POST PROFILE

④ LOCKING PROFILE

⑤ GLAZING STOP

⑥ REBATE EXTENTION

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Approved as complying with the
Florida Building Code
Date 01/09/03
NOA# 02-0922-09
Miami Code Product Control
Division
By Cherian Ber

CERTIFICATION
NOV 26 2002

DRAWING NO.	REV
1103	
SHEET NO.	
6	OF 6